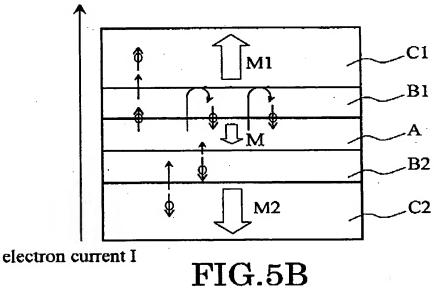
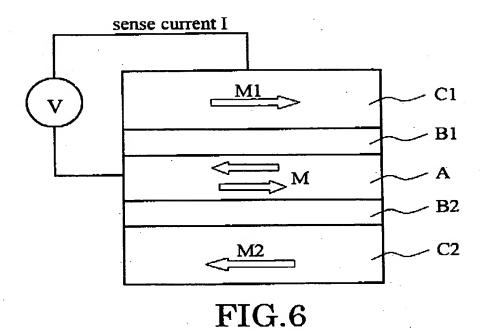


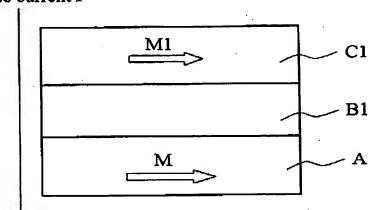
FIG.5A



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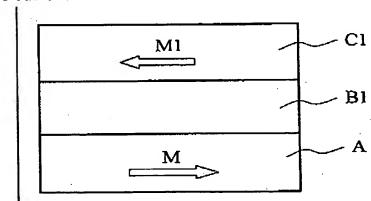
sense current I



normal type: low resistance ("0" or "1") reverse type: high resistance ("0" or "1")

FIG.7A

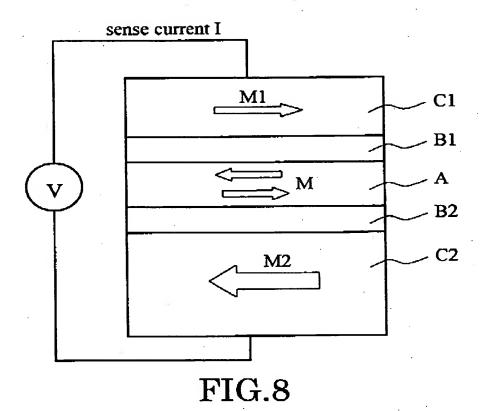
sense current I



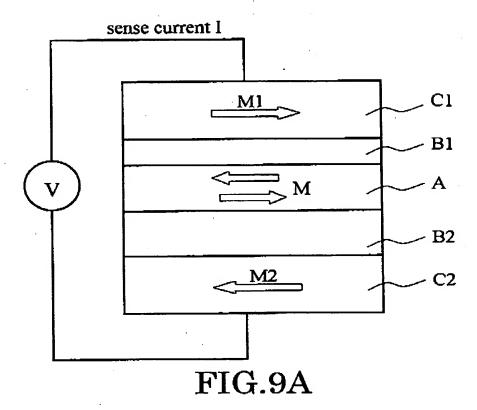
normal type: high resistance ("1" or "0") reverse type: low resistance ("1" or "0")

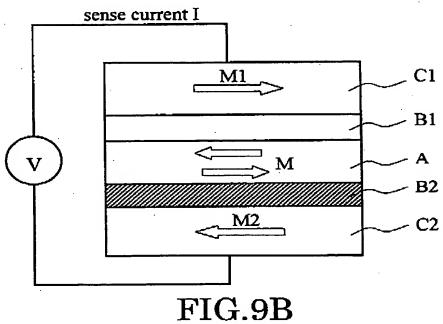
FIG.7B

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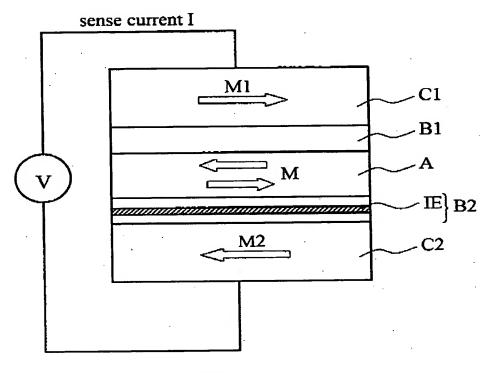


FIG.10

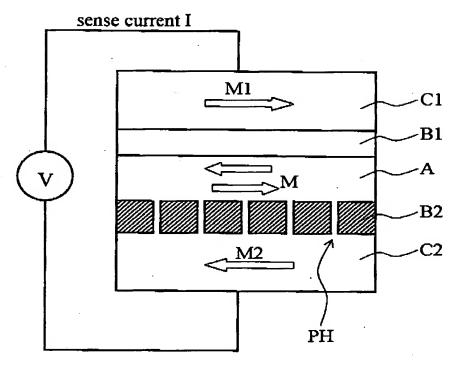
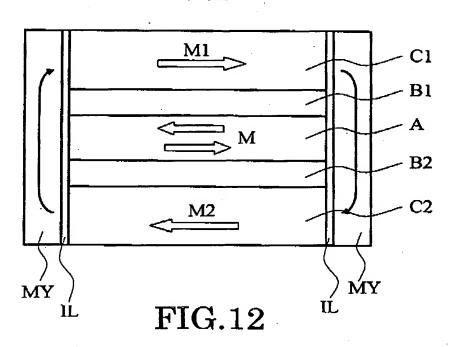
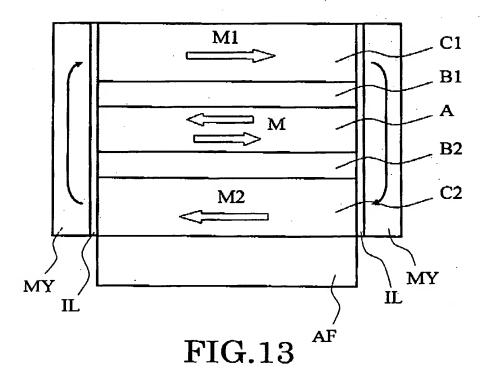


FIG.11

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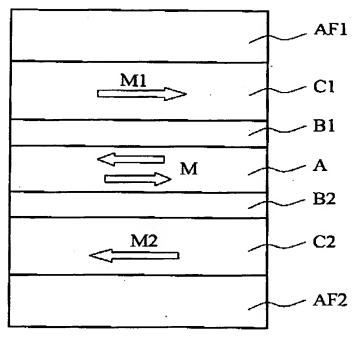


FIG.14

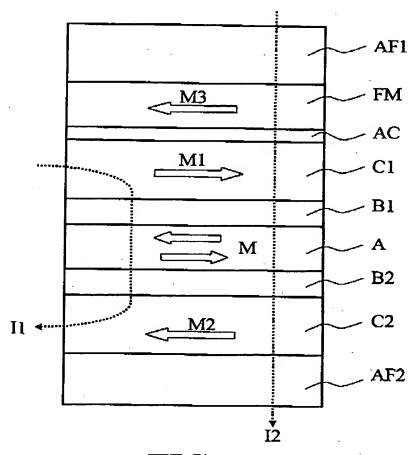


FIG.15

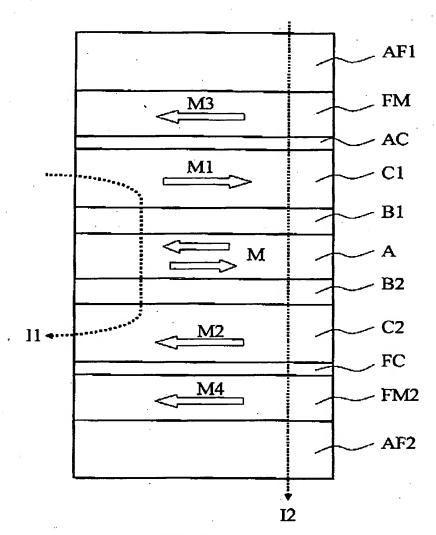
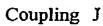


FIG.16



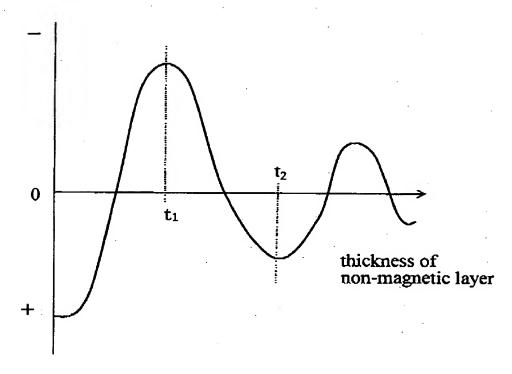


FIG.17

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 16 OF 42

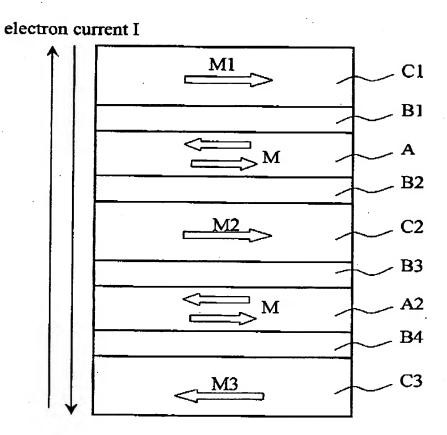


FIG.18

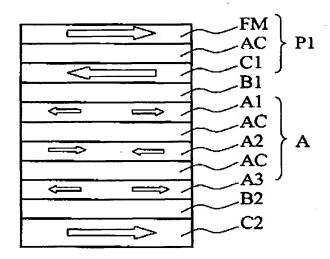


FIG.19

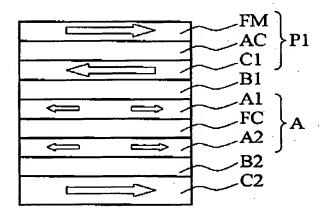


FIG.20

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET <u>18</u> OF <u>42</u>

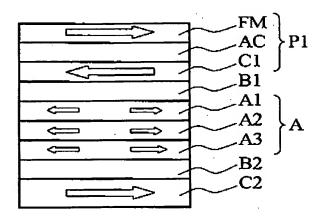


FIG.21

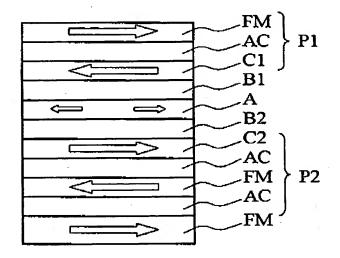


FIG.22

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 19 OF 42

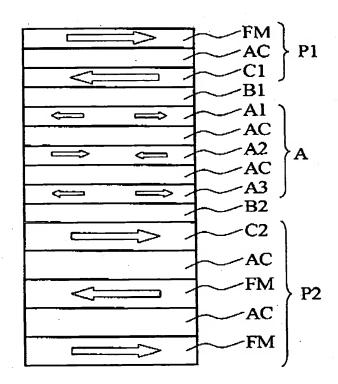


FIG.23

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET <u>20</u> OF <u>42</u>

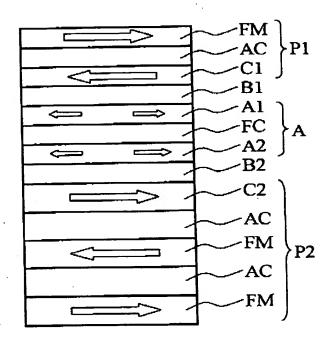


FIG.24

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 21 OF 42

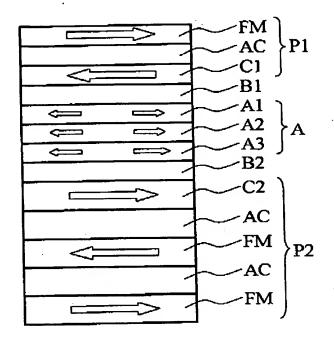


FIG.25

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 22 OF 42

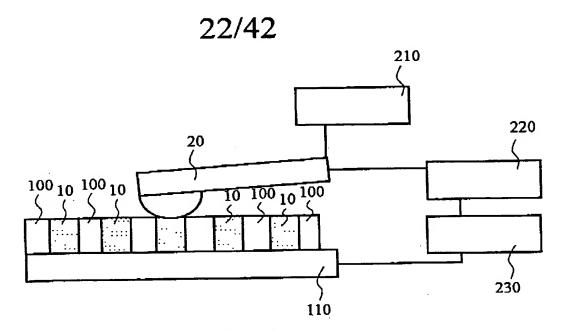


FIG.26

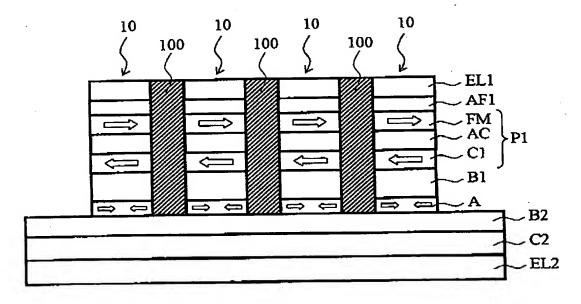


FIG.27

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 23 OF 42

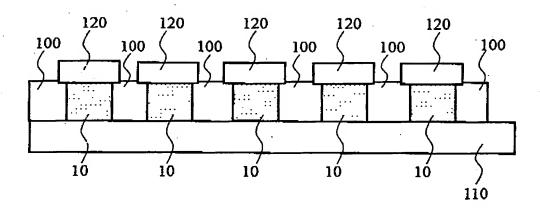


FIG.28

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET <u>24</u> OF <u>42</u>

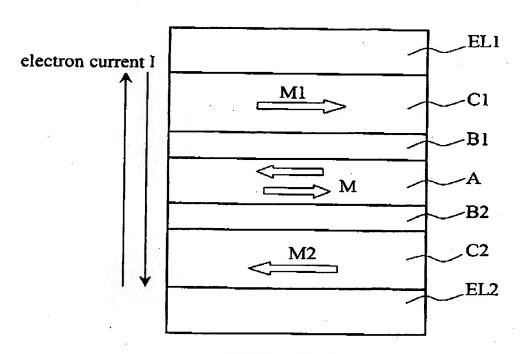


FIG.29A

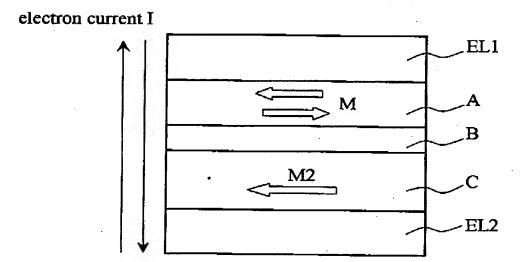


FIG.29B

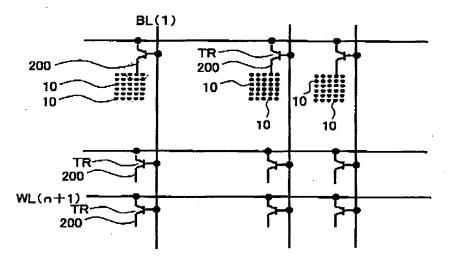


FIG.30

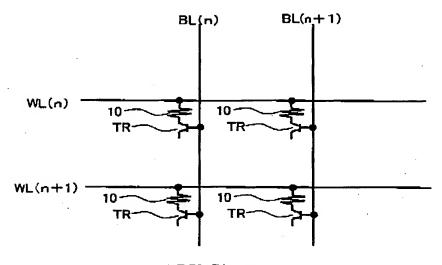


FIG.31

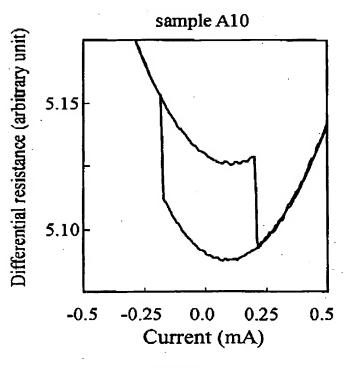
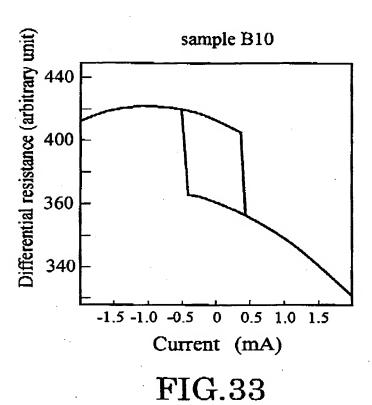


FIG.32



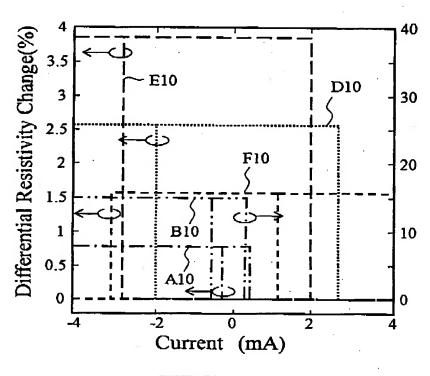


FIG.34

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 29 OF 42

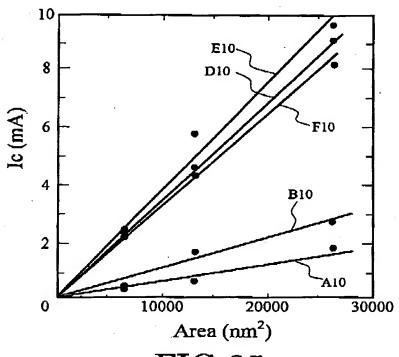


FIG.35

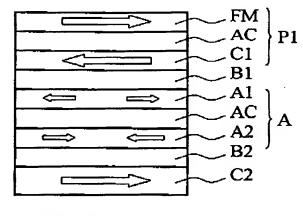


FIG.36

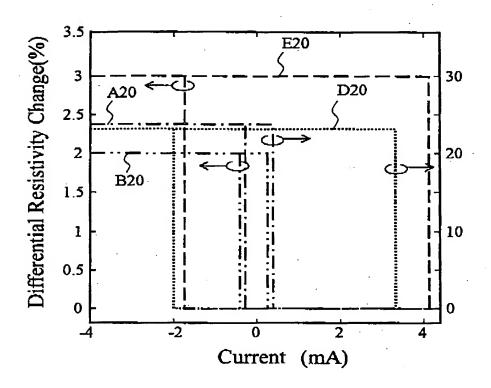


FIG.37

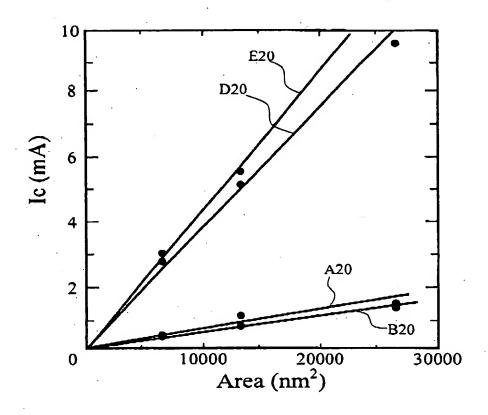


FIG.38

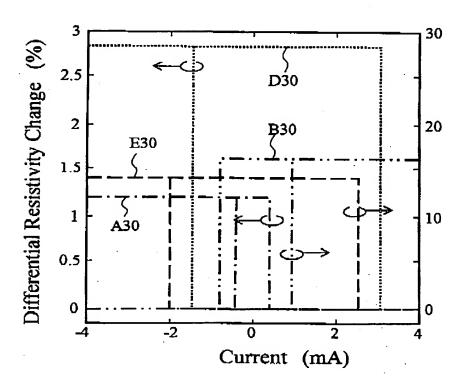


FIG.39

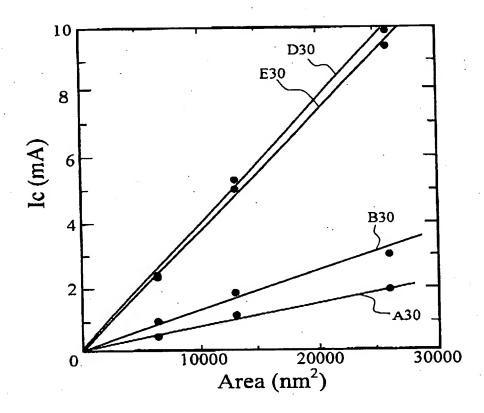


FIG.40

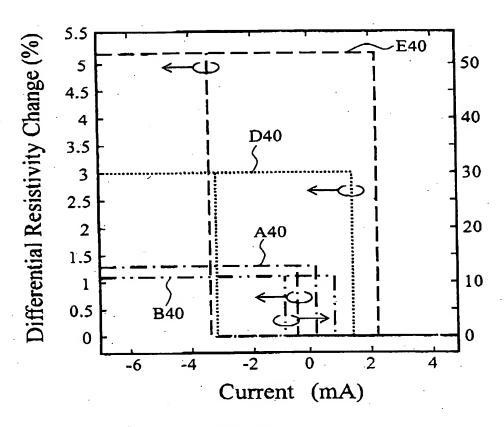


FIG.41

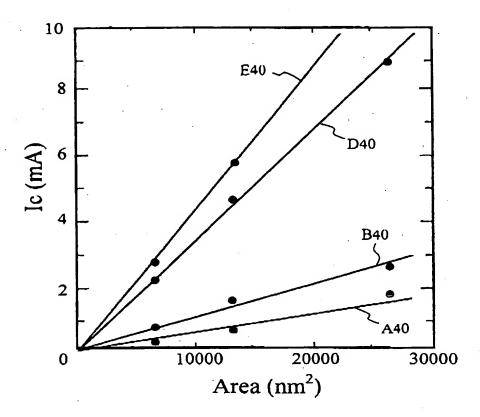


FIG.42

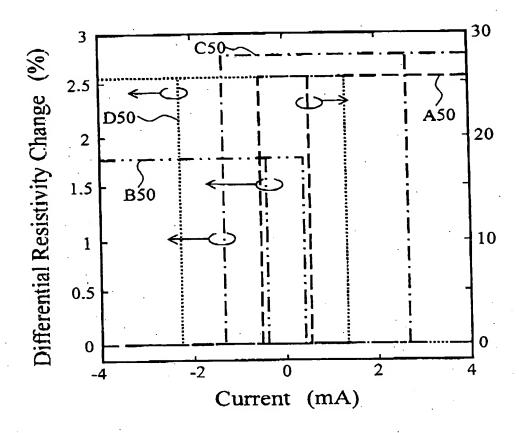


FIG.43

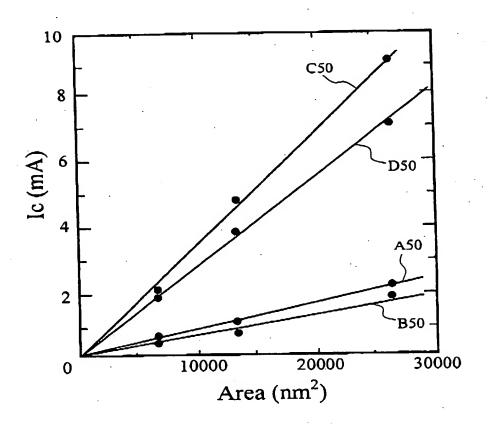


FIG.44

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 38 OF 42

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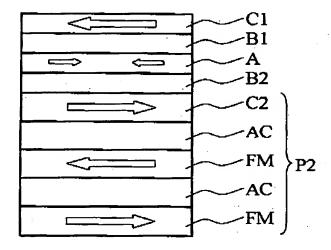


FIG.45

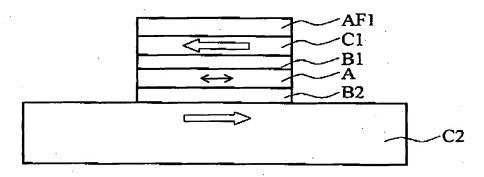


FIG.46

OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 39 OF 42

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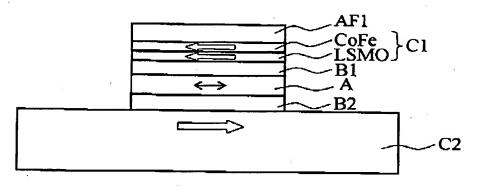


FIG.47

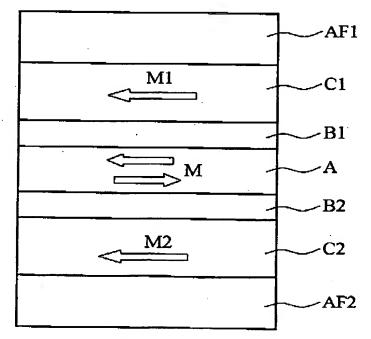
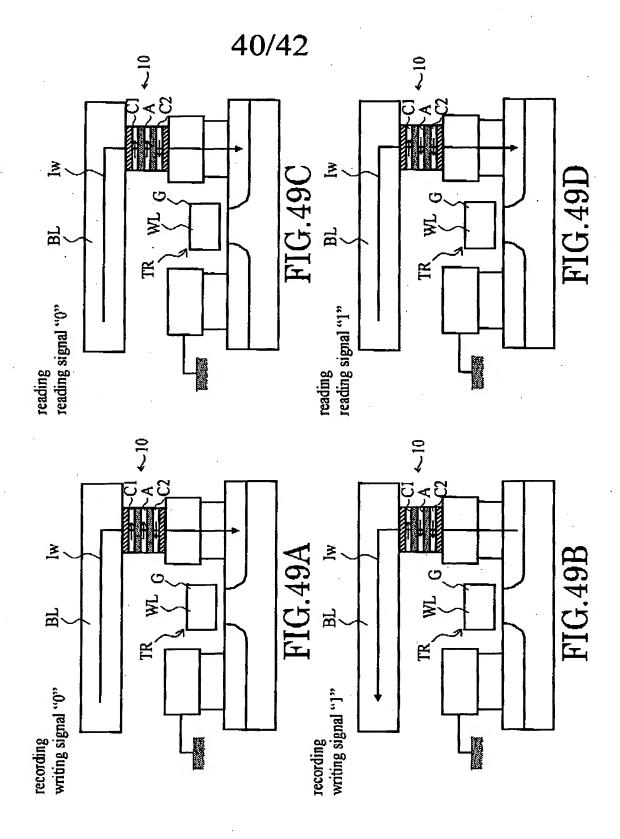


FIG.48



OBLON, SPIVAK, ET AL DOCKET #: 245994US2TTCRD INV: Shiho NAKAMURA, et al. SHEET 41 OF 42

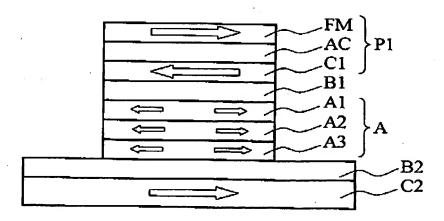


FIG.50

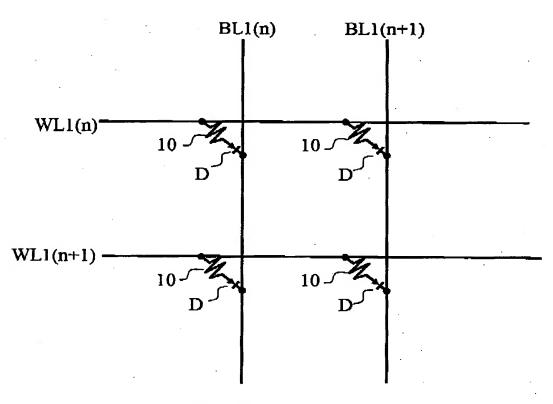


FIG.51